



## Maintenance Schedule ACS800 Drives

4FPS10000223379

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For drives manufactured or maintained 2016 or before.

Drives manufactured or maintained 2017 or later, refer to 4FPS10000573508.

Recommended maintenance intervals and component replacements are based on specified operational and environmental conditions. ABB recommends annual drive inspections to ensure the highest reliability and optimum performance. More detailed maintenance information can be found in maintenance instructions, product manuals and on the Internet.

[www.abb.com/drives](http://www.abb.com/drives)

**NOTE! Long term operation near the maximum specified ratings or environmental conditions may require shorter maintenance intervals for certain components. Check the device specific technical specifications in the relevant hardware manual and consult your local ABB Service for maintenance recommendations at:**

[www.abb.com/searchchannels](http://www.abb.com/searchchannels)

Legend:	
Inspection (visual inspection and maintenance action if needed)	I
Performance of on-/off-site work (commissioning, tests, measurements or other work)	P
Replacement of component (If installation is in appropriate environment - see Hardware manual)	R

	Years from start-up																					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
<b>Start-up</b>	P																					
<b>Cooling, air cooled</b>																						
Internal/additional cooling fan for ACS800-01, -04, -11, -31, -104 (IP20, IP21 and IP55)				R			R			R			R			R			R			R
Cooling fan for ACS800-01, -02, -04, -07, -11, -17, -31, -37, -38, -14, -104, DSU, ISU, ALCL				I			R			I			R			I			R			I
DOL Cooling fan for DSU+992, ALCL-1X, 0X-X (mains supply frequency 60Hz)*				R			R			R			R			R			R			R
Cooling fan for DSU+V992 (mains supply frequency 50Hz)				I	I	I	R	I	I	I	I	R	I	I	I	I	I	I	R	I	I	I
Enclosure extension cooling fan (ACS800-02)				R			R			R			R			R			R			R
Extra cooling fans inside cabinet (ACS800-x7, ACS800 md)				I			R			I			R			I			R			I
Extra IP54 cooling fan on roof of cabinet (ACS800-07, ACS800 md)				I			R			I			R			I			R			I
<b>Cooling, liquid cooled units</b>																						
Cooling fans ACS800LC, 50Hz				I			R			I			R			I			R			I
DOL Cooling fan for ACS800LC, DSU LC, (mains supply frequency 60Hz)*				R			R			R			R			R			R			R
Check pH of coolant			P		P		P		P		P		P		P		P		P		P	
Add coolant corrosion inhibitor			P		P		P		P		P		P		P		P		P		P	
Heat exchanger cleaning			P		P		P		P		P		P		P		P		P		P	
Expansion tank air pressure			P		P		P		P		P		P		P		P		P		P	
Cooling liquid pump assembly				I			R			I			R			I			R			I
Change coolant in internal cooling circuit										R									R			
Expansion tank										R									R			
Cooling liquid pipe connections		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
<b>Aging</b>																						
Electrolytic capacitors (DC circuit)										R									R			
Converter electronic boards: APOW, AFIN, AFPS, AGPS, CMRB, CMIB, DSMB, DSAB, DSCB										R									R			
Cabinet Auxiliary Power Supplies***										R									R			
Memory backup battery replacement in APBU-xx unit							R						R						R			
ALCL filter capacitor 380 - 415V supply network** (ACS800-14, -17, -37, -38, -67, md, LC)							I			I/R			I			I			I/R			I
ALCL filter capacitor 460V - 690V supply network** (ACS800-14, -17, -37, -38, -67, md, LC)							I/R			I			I/R			I			I/R			I

Connections and environment																					
AIN+ flat cables, CINT, NRED, discharging resistors										R										R	
Power cable connections and quick connectors of the supply, inverter and converter modules (ACS800-x7/ and ACS800 md)			I			I			I			I			I			I		I	
Air filters (IP20 to IP42)		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Air filters (IP54 and IP54R)		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Cleanliness check (dustiness, corrosion and temperature) and/or heat sink cleaning		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Main Contactor maintenance		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Improvements																					
Based on product notes			I			I			I			I			I			I			I
Spare parts																					
DC circuit capacitors reforming		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Safety Function																					
Safety function test interval		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

\*) DOL Cooling fan= Direct on line fan

\*\*) If filter capacitor is not replaced, the filter capacitor shall be inspected/measured after 3 years from the last inspection.

\*\*\*) Check amount of Auxiliary power supplies from cabinet or manufactured BOM.